SHIP SYSTEM	SUBSYSTEM	MRC CODE
Ventilation		R-

SYSTEM	EQUIPMENT	RATES	M/H
	Ventilation Systems	GS-11/12	40.0

MAINTENANCE REQUIREMENT DESCRIPTION

1. Conduct SEMAT assessment procedure for ship's ventilation system.

TOTAL M/H
40.0
ELAPSED TIME

SAFETY PRECAUTIONS

1. Forces afloat comply with NAVOSH Program Manual for Forces Afloat, OPNAVINST 5100.19 series.
2. Ensure all tag-out procedures are in accordance with current shipboard instructions.
3. Consider all electrical leads to be energized until positively proven they are de-energized.
4. Never attempt to clean grease interceptor hood while fan motor is energized.
5. Avoid repeated/prolonged skin contact with hazardous materials. Wash affected areas with soap and water upon completion of task or prior to eating, drinking, smoking, or applying cosmetics.
6. Ensure fan blades are completely stopped before attempting this inspection. If necessary, once fan rotation has stopped, place a wood pole between blades to prevent further rotation.

TOOLS, PARTS, MATERIALS, TEST EQUIPMENT

MATERIALS

1. [1102] Rags, wiping
2. [1144] Tag, safety

TOOLS

1. [1170] Mirror, inspection
2. [1172] Screwdriver, cross tip, 4", # 2 phillips, nonspark/nonmag
3. [1451] Wrench set, socket, 1/4" sq drive, 3/16" to 1/2", 13 PC
4. [2271] Flashlight, Type 3, style 1, explosive proof
5. [3886] Screwdriver, flat tip, 6"

MISCELLANEOUS

1. [0525] Gloves, chemical protective, Natural/syn rubber, size 10
2. [1365] HVAC System Diagram
3. [3215] Respirator, air filtering, Disposable mask, 20 EA

NOTE: Numbers in brackets can be referenced to Standard PMS Materials Identification Guide (SPMIG) for stock number identification.

DISTRIBUTION STATEMENT D

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LOCATION	DATE	
	August 1997	N

PROCEDURE

NOTE 1: Accomplish assessment before availability, after availability, and before deployment.

NOTE 2: Number of man-hours assigned is average for DD-class ships and may require adjustment for larger class of ships.

NOTE 3: Visually assess the ships Ventilation System to include but no limited to Sick Bay and Isolation Wards for cleanliness, proper support, (includes Sound Isolation Devices), rust and corrosion, components installed (includes Gages and Label Plates), damage and deterioration, (includes Lagging), missing parts, tightness of bolts and casings/joints/seal to determine material condition. Include (as applicable):

Ducts and Plenums	Insulation
Supports	Filters and Screens
Floats and Diffusers	Hoods and Fans
Wire Mesh Screens	Flanges and Shutters

NOTE 4: This assessment does not include:
a. Air Conditioning Plants (51422)
b. Pipe Lagging (50811) (50812)
c. Power Cable (32111)

NOTE 5: Obtain permission of Ship's Ventilation System DCPO prior to conducting assessment.

1. **Conduct SEMAT Assessment Procedure for Ship's Ventilation System.**
   a. Assess ventilation supply, exhaust and recirc ducting, and plenum interior.
      (1) Remove access plates.
      (2) Assess interior of ducting and plenums for dirt accumulation, rust and cracks.
      (3) Reinstall access plates.
   b. Assess wire mesh screens.
      (1) Visually assess screens for signs of deterioration, damage, or missing sections.
   c. Assess insulation.
      (1) Visually assess insulation for signs of deterioration, damage, or missing sections.
   d. Assess ducting supports.
      (1) Visually assess ducting supports for deterioration, rust, damage or missing parts.
      (2) Ensure support hardware is intact and there are no missing parts.
   e. Assess ducting flanges/shutters.
      (1) Visually assess duct flanges and shutters for rust, damage, missing or loose hardware. Assess shutters for binding, bent or missing parts.
      (2) Visually assess flange gaskets for deterioration or signs of leakage.
   f. Assess filters/screens/diffuser.
      (1) Visually assess filters and screens for cleanliness, signs of deterioration, and restricted air flow.
      (2) Assess gasket in filter access cover, if applicable, for signs of deterioration.
      (3) Assess diffusers for corrosion and foreign matter.

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PROCEDURE (Contd)

g. Assess grease interceptor hood.

NOTE 6: Ships Force to provide personnel to drain, disconnect, and clean detergent line and foot valve in detergent tank in preparation for assessment.

WARNING: Never attempt to assess grease interceptor hood while fan motor is energized.

WARNING: Consider all electrical leads to be energized until positively proven they are de-energized.

WARNING: Ensure all tag-out procedures are in accordance with current shipboard instructions.

WARNING: Avoid repeated/prolonged skin contact with hazardous materials. Wash affected areas with soap and water upon completion of task or prior to eating, drinking, smoking, or applying cosmetics.

(1) De-energize motor and controller and tag "Out of Service."
(2) Assess grease interceptor hood detergent tank.
    (a) Assess tank for cracks and interior for foreign matter.
(3) Assess grease interceptor hood foot valve.
    (a) Assess screen for breaks and clogged perforations.
    (b) Assess all connections for tightness.
(4) Remove safety tag and return equipment to readiness condition.

h. Assess ventilation fan.

NOTE 7: Ships Force to provide personnel, as required, to clean interior of ventilation fans in preparation for assessment.

CAUTION: Prior to de-energizing equipment serving electronic space that would be adversely affected by a temporary temperature increase caused by a lack of ventilation, make proper notification.

WARNING: Consider all electrical leads to be energized until positively proven they are de-energized.

WARNING: Ensure all tag-out procedures are in accordance with current shipboard instructions.

(1) De-energize vent motor and controller and tag "Out of Service."

NOTE 8: If access at inlet to fan is not installed, have access installed.

(2) Remove fan access cover at fan or immediate ducting as applicable to gain access for assessing fan.

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PROCEDURE (Contd)

NOTE 9: In some spaces, it may be necessary to close all hatches and doors to prevent fan rotation.

(3) Assess interior of housing for rust, cracks, scraped areas, etc.
(4) Assess blades for cracks, pitting, dents, or any scraping damage.
(5) Remove safety tag and return equipment to readiness condition.

2. **All discrepancies identified shall be noted on applicable SEMAT discrepancy identification forms (2-K or Material Assessment Form).**

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